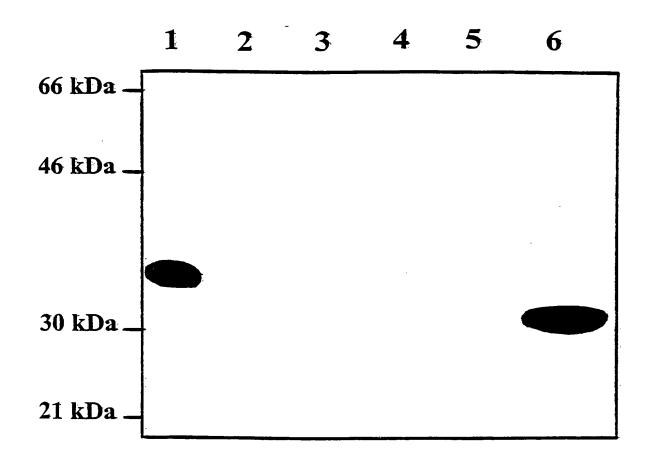
Fig. 1



- Lanes: 1.2.5 ng HT-IN
 - 2. pCEP-4
 - 3. pCEP-IN
 - 4. pCEP-IN-CTE
 - 5. pCEP-IN-RRE + pEF-cRev 6. pCMV-IN^S

930

C

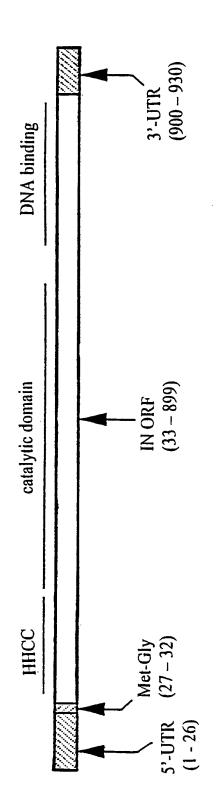
∑

TCCAACTACT AAACTOGOGG ATATTATGAT

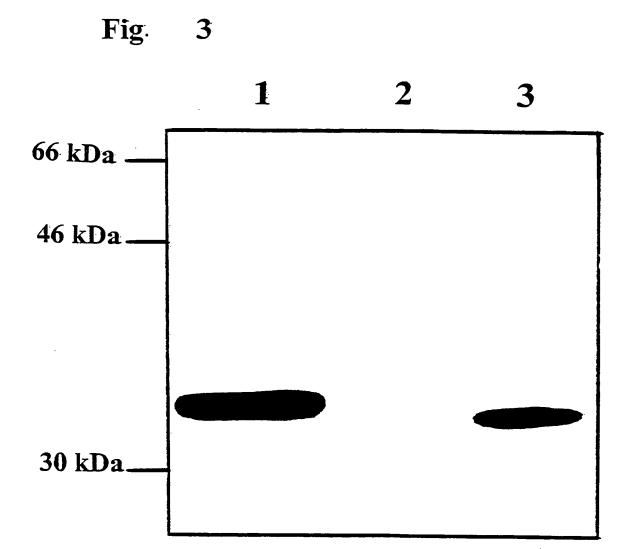
Fig. 2A

001	200	300	400	200	009	700	800	900
ATCACTAGCA ACCTCAAACA GAC <u>ACATGG</u> GATTCCTGGA CGGCATTGAC AAGGCTCAGG AGGAGCACGA GAAGTACCAC TCGAATTGGC GGGCCATGGC M G F L. P G I D K A Q B F II B K Y II S N W R A M A	CTCCGACTTC AACCTGCCAC CCGTCGTCAAGGAGATC GTTGCTAAGT GCGACTGAAA GGCGAGGCTA TGCACGGGCA GGTTGATTGC S D F N L P P V V A K B I V A S C D K C Q L K G B A M II G Q V D C		CTGCAGAGAC TOGCCAOOAG ACTGCCTATT TCCTGCTGAA ACTGCCCGGC COGTGGCCTG TGAAGACAGT GCACACAGAT AACGGCTCCA ACTTCACCTC A B T G Q B T A Y F L L K L A G R W P Y K T Y II T P N G S N P T S	САССАСТЯТЯ AAGGCTGCCT GCTGGTGGGC TGGGATCAAG CAGGAGTTCG GGATCGCTA TAACCCACAG TCTCAGGGCG TGATCGAATC CATGAACAAG T T Y K A A C W W A G I K Q B F G I P Y N P Q S Q G V I B S M N K	GAGCTGAAGA AGATCATCGG CCAGGTTCGG GACCAGGCAG AGCACCTGAA GACTGCAGTGGCG TGTTCATCCA CAACTTCAAG CGAAAGGGCG	GCATCGGTGG CTACTCAGCC GGCGAGCGGA TCGTGGACAT CATCGCCACT GACATCCAGA CCAAAGAGCT GCAGAAGCAG ATCACCAAGA TCCAGAACTT	CCGTGTGTAC TACCGGGACT CCCGGGACCC TGTGTGGAAG GGCCCTGCCA AGCTGCTGTG GAAGGGCGAAG GGCGCCGTGG TCATTCAGGA CAACTCTGAC	ATCAAGGTTG TGCCCAGGCG CAAGGCCAAG ATTATCCGGG ACTACGGCAA GCAGATGGCT GGCGACGACT GTGTGGCCTC TCGTCAAGAT GAGGACTAAG 900





SUBSTITUTE SHEET (RULE 26)



Lanes: 1. 2.5 ng HT-IN

2. 293T

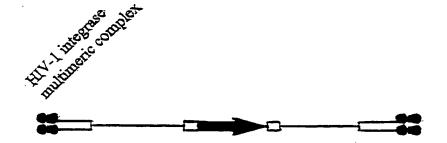
3. 293T-IN^S

Fig. 4. Principle of DIPR Detection of integrase activity using a promoterless reporter gene

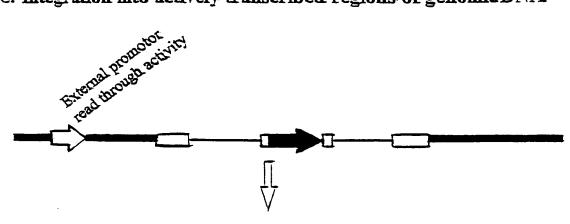
A. Substrate LTR-IRES-Luc (digested with Scal)



B. Transfection into cells, binding of integrase to U3-U5 ends and cleavage of termini



C. Integration into actively transcribed regions of genomic DNA



Luciferase expression